

Steam Locomotive Engineer under 100 Tons

Qualifications

Minimum age - 21

Experience - proof of 50 hours of actual steam locomotive operation or attestation by two qualified

Steam Locomotive Engineers as to the applicant's experience and Competency.

Note: experience may be demonstrated by holding a valid state issued or railway issued steam locomotive Engineer's license or certificate.

Examination - written (oral or practical where necessary)

Curriculum at the Minimum:

- Basic math and science
- Basic combustion theory
- General construction of a Locomotive boiler
- Basic boiler maintenance
- Boiler safety devices
- Boiler fittings and accessories
- Corrective measures for low water conditions
- Locomotive construction
- Steam engine operating cycle
- Valve maintenance
- Bearing maintenance and lubrication
- Water glass test and operation
- Water column test and operation
- Gauge cock test and operation
- Pre trip Boiler Inspection
- Pre trip Machinery Inspection
- Railroad signals
- Railroad safety
- Breaks
- Proper use of sand